

# Groundwater Recharge, Movement and Discharge in Salt Lake Valley

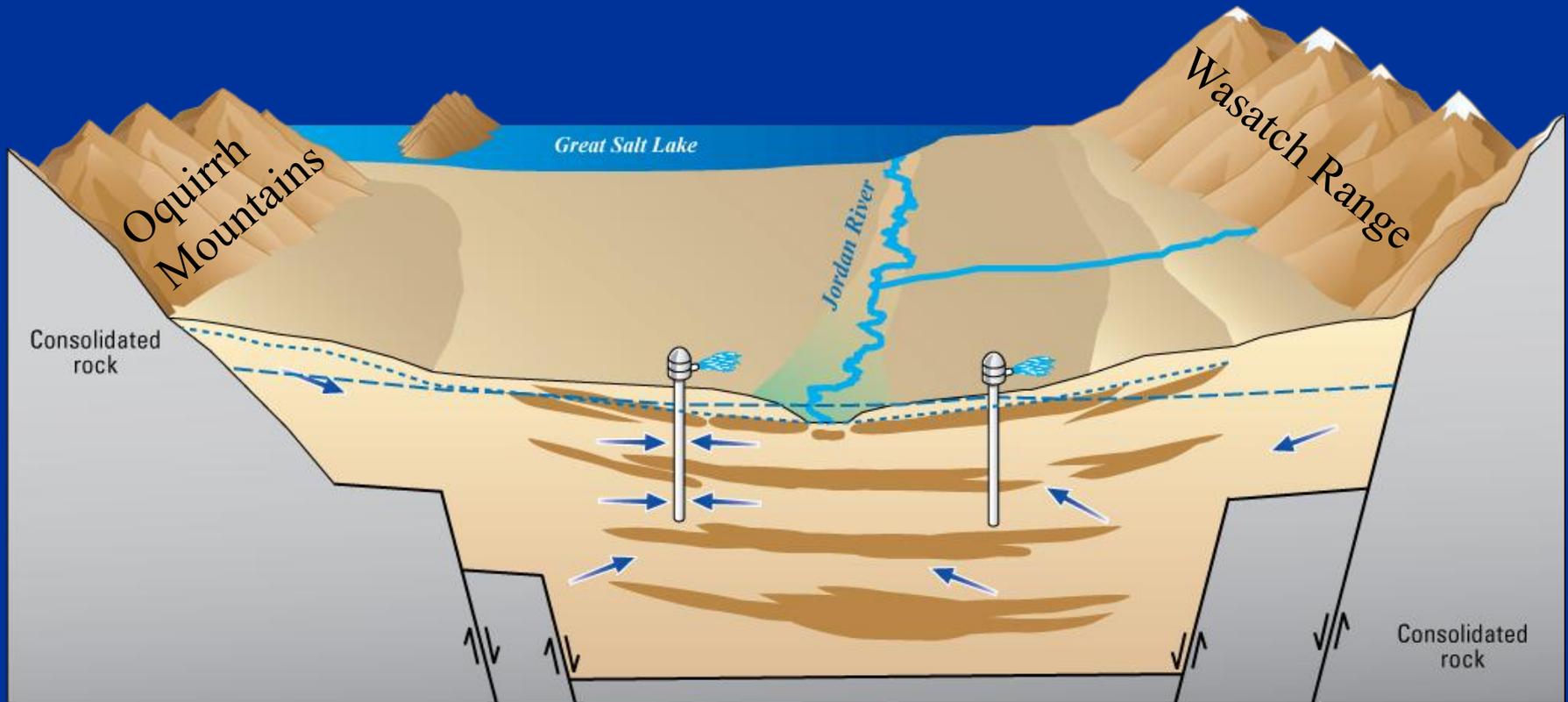


**Bert Stolp, U.S. Geological Survey**

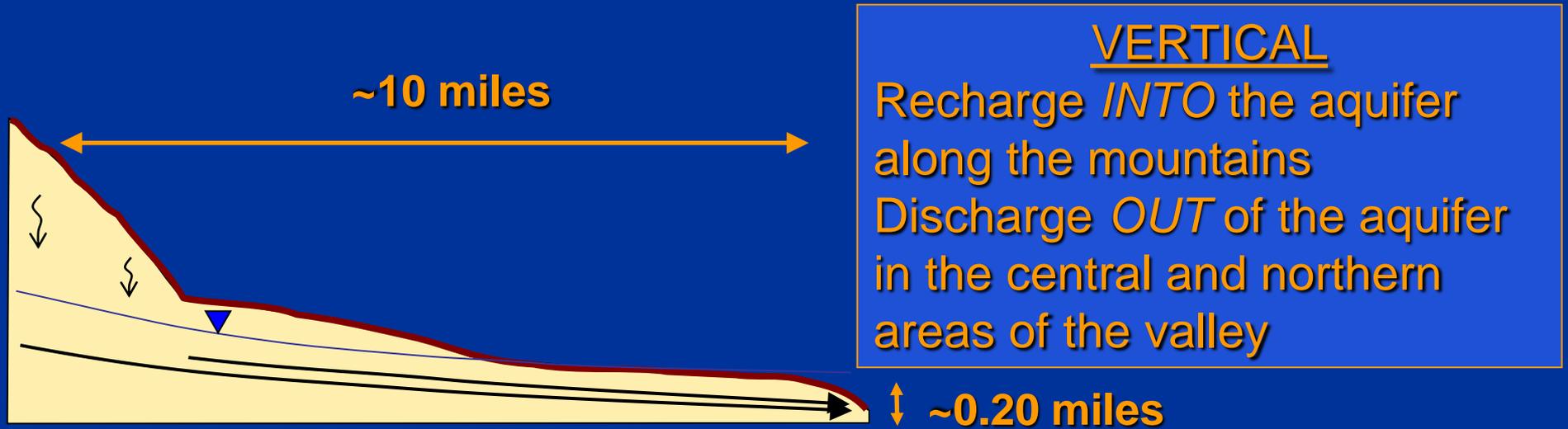
# Groundwater Recharge

From mountain precipitation	45%
From valley precipitation	25%
From streams and canals	15%
From irrigation	15%
Total	300,000 acre-feet/year

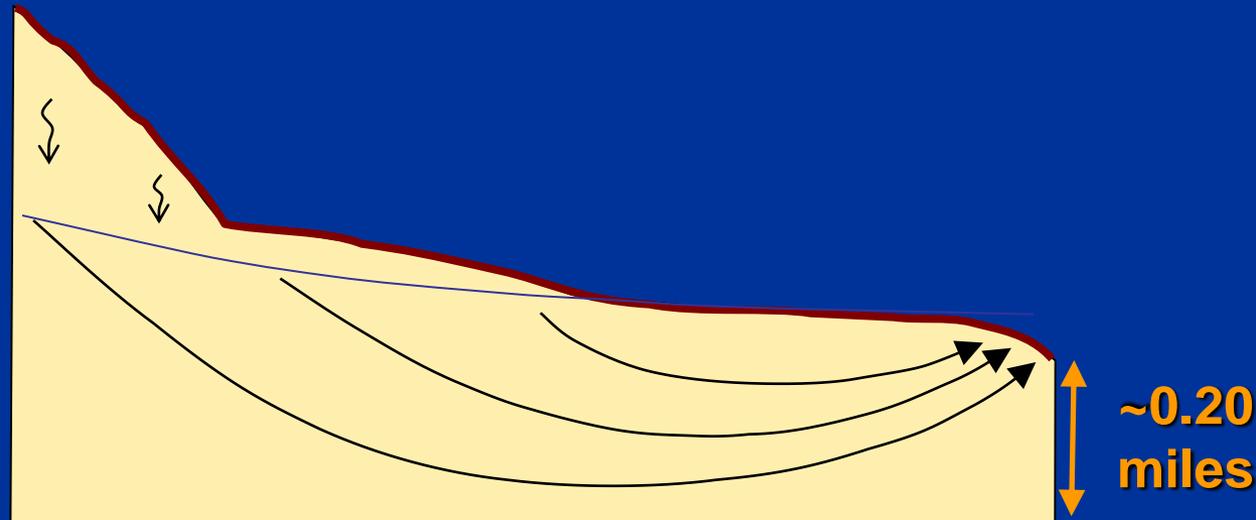
# Groundwater Recharge and Movement



# Groundwater Recharge and Movement



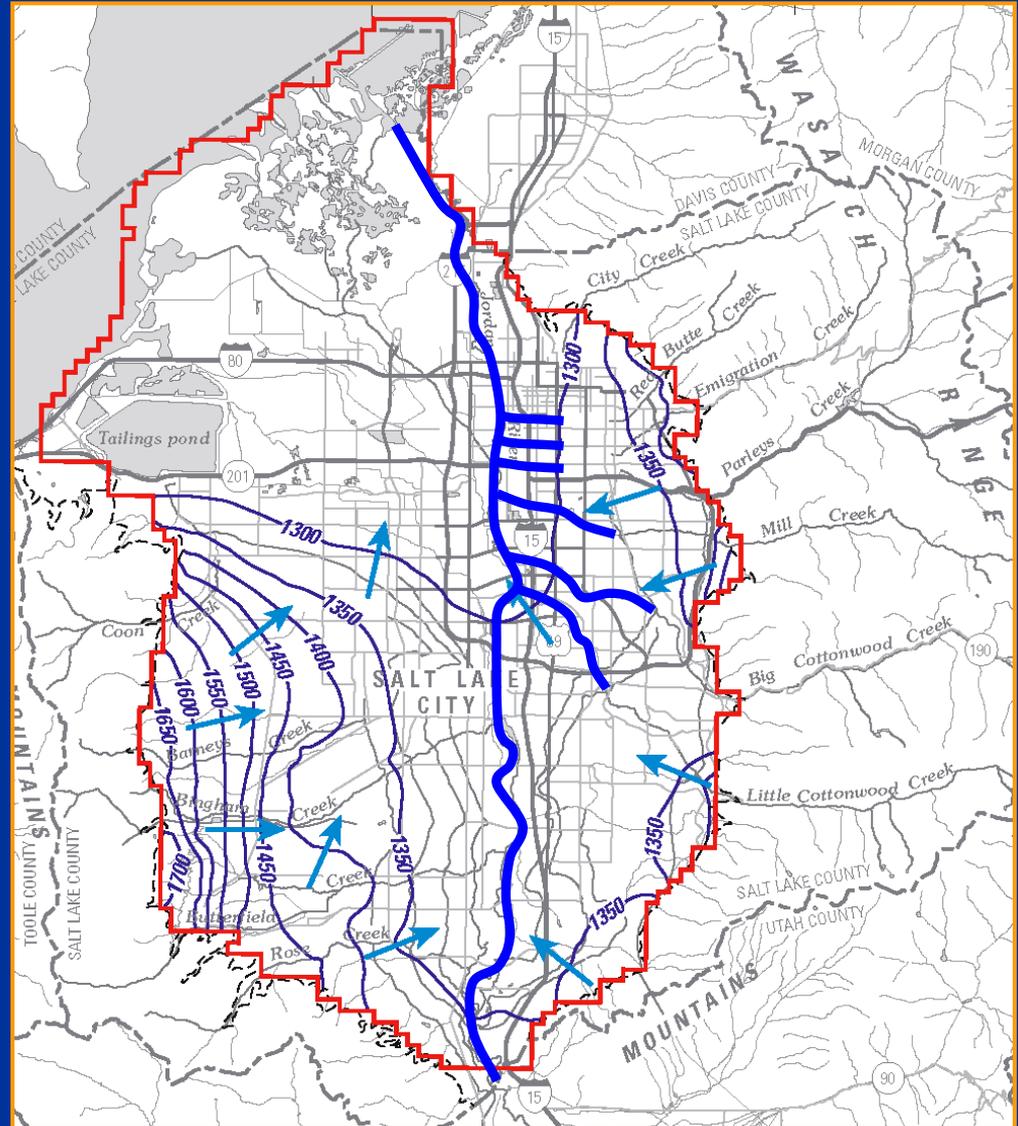
**No vertical exaggeration**



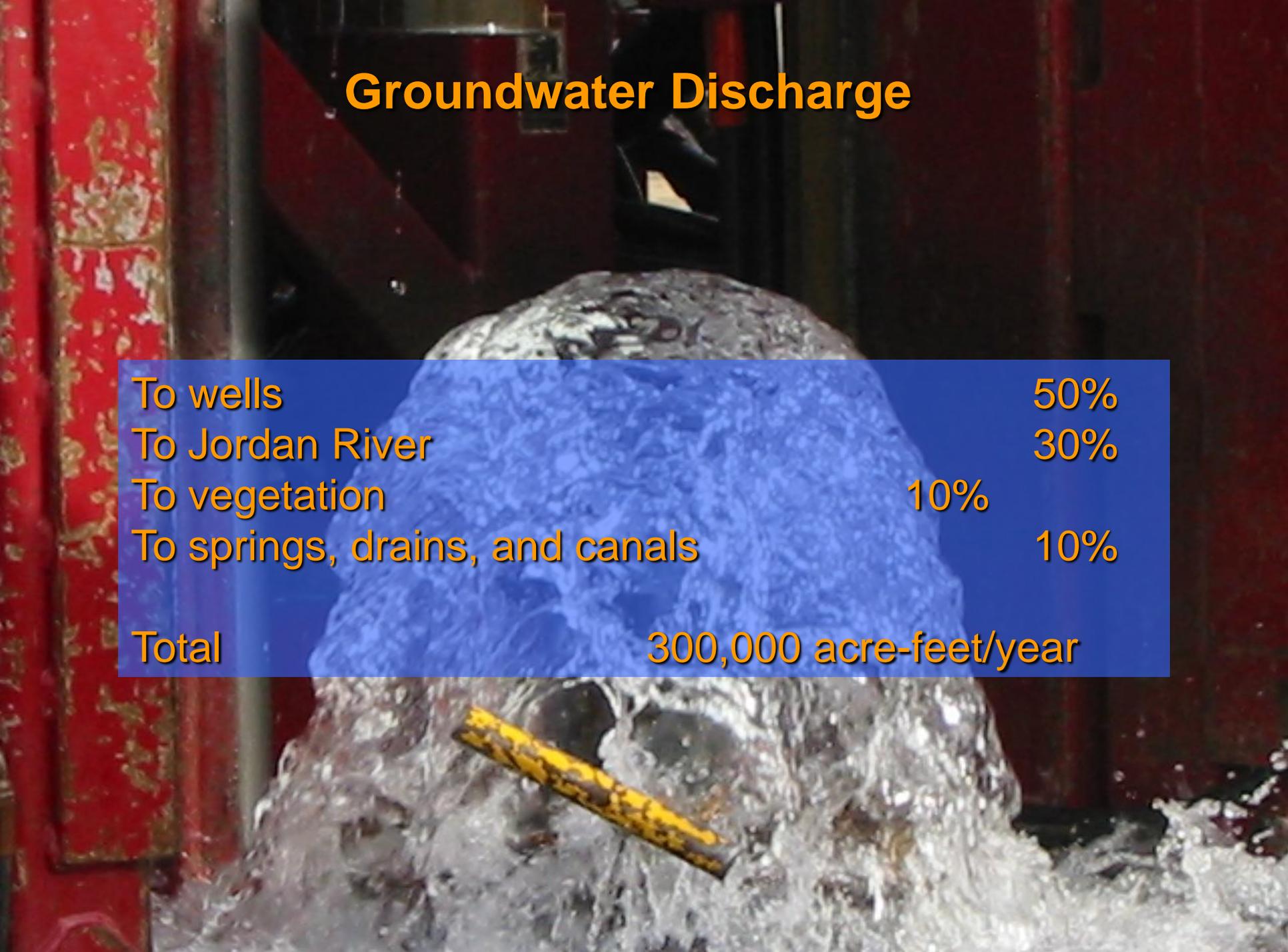
**Detailed view of vertical flow**

# Groundwater Movement

HORIZONTAL  
From mountains to the  
central and northern  
areas of the valley



# Groundwater Discharge



The background image shows a large, turbulent discharge of water from a well. The water is white and frothy, cascading down. A yellow pipe is visible in the foreground, partially submerged in the water. The surrounding structure is red and appears to be part of a wellhead or discharge system.

To wells	50%
To Jordan River	30%
To vegetation	10%
To springs, drains, and canals	10%
Total	300,000 acre-feet/year



# Conclusions

1. Good quality water recharged along the mountains (mostly from the Wasatch Mountains)
2. Water moves to the central and northern areas of the valley
3. Water discharges to wells, Jordan River, and vegetation